

#### PATENT APPLICATION

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q77445

Sang Yup LEE, et al.

Appln. No.: 10/662,517

Confirmation No.: 2292

Group Art Unit: 1633

Filed: September 16, 2003

Examiner: To Be Assigned

For: PROCESS FOR PREPARING SERINE-RICH PROTEIN EMPLOYING

CYSTEINE SYNTHASE (CYSK) GENE

### INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97 and 1.98

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicants hereby notify the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

Weickert *et al.*, "Optimization of heterologous protein production in *Escherichia coli*," <u>Current Opinion in Biotechnology</u>, Vol. 7, (1996), pp. 494-499;

Hochstrasser, et al., "Method for Increasing the Resolution of Two-Dimensional Protein Electrophoresis," <u>Analytical Biochemistry</u>, Vol. 173, (1988), pp. 424-435;

Han *et al.*, "Proteome Analysis of Metabolically Engineered *Escherichia coli* Producing Poly(3-Hydroxybutyrate)," <u>Journal of Bacteriology</u>, Vol. 183, No. 1, (January 2001), pp. 301-308;

INFORMATION DISCLOSURE STATEMENT U.S. Appln. No. 10/662,517

Park *et al.*, "Metabolic engineering of *Escherichia coli* for the production of medium-chain-length polyhydroxyalkanoates rich in specific monomers," <u>FEMS Microbiology Letters 214</u>, (2002), pp. 217-222;

Peekhaus *et al.*, "Positive and Negative Transcriptional Regulation of the *Escherichia coli* Gluconate Regulon Gene *gntT* by GntR and the Cyclic AMP (cAMP)-cAMP Receptor Protein Complex," <u>Journal of Bacteriology</u>, Vol. 180, No. 7, (April 1998), pp. 1777-1785;

Jeong *et al.*, "High-Level Production of Human Leptin by Fed-Batch Cultivation of Recombinant *Escherichia coli* and Its Purification," <u>Applied and Environmental Microbiology</u>, Vol. 65, No. 7, (July 1999), pp. 3027-3032; and

Jeong *et al.*, "Secretory Production of Human Granulocyte Colony-Stimulating Factor in *Escherichia coli*," <u>Protein Expression and Purification</u>, Vol. 23, (2001), pp. 311-318.

One copy of each of the listed documents is submitted herewith.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date for an application other than a continued prosecution application (CPA) under §1.53(d); (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application.

Applicants do not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

# . INFORMATION DISCLOSURE STATEMENT U.S. Appln. No. 10/662,517

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

Respectfully submitted,

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WASHINGTON OFFICE 23373
CUSTOMER NUMBER

Date: February 27, 2004



for Form 1449 A & B/PTO

Sheet

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of

Con	iplete if Known	
Application Number	10/662,517	
Confirmation Number	2292	
Filing Date	September 15, 2003	
First Named Inventor	Sang Yup LEE	
Art Unit	1633	
Examiner Name	Not Assigned	
Attorney Docket Number	O77445	

			U.S.	PATENT DOCU	DOCUMENTS	
	•	Document Number				
Examiner Initials*	Cite No. <sup>1</sup>	Number	Kind Code <sup>2</sup> know n)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	
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Examiner	Cite	Foreign Patent Document		Publication Date	Name of Patentee or	T6	
Initials*	No.1	Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document	Translation <sup>6</sup>

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
		Weickert <i>et al.</i> , "Optimization of heterologous protein production in <i>Escherichia coli</i> ," <u>Current Opinion in</u> Biotechnology, Vol. 7, (1996), pp. 494-499.	
		Hochstrasser, et al., "Method for Increasing the Resolution of Two-Dimensional Protein Electrophoresis," Analytical Biochemistry, Vol. 173, (1988), pp. 424-435.	
		Han et al., "Proteome Analysis of Metabolically Engineered Escherichia coli Producing Poly(3-Hydroxybutyrate)," Journal of Bacteriology, Vol. 183, No. 1, pp. 301-308.	
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		Peekhaus et al., "Positive and Negative Transcriptional Regulation of the Escherichia coli Gluconate Regulon Gene gntT by GntR and the Cyclic AMP (cAMP)-cAMP Receptor Protein Complex," <u>Journal of Bacteriology</u> , Vol. 180, No. 7, (April 1998), pp. 1777-1785.	á
		Jeong et al., "High-Level Production of Human Leptin by Fed-Batch Cultivation of Recombinant Escherichia coli and Its Purification," Applied and Environmental Microbiology, Vol. 65, No. 7, (July 1999), pp. 3027-3032.	
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Examiner Signature Date Considered		·		Examiner Signature

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.